

SEQUENCE LISTING

<110> BIOVECTOR THERAPEUTICS
INSERM

<120> POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
PARTICULARLY IN VACCINATION

<130> WOB EPIT 2

<140>
<141>

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<150> FR 9907012
<151> 1999-06-03
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<160> 18

<170> PatentIn Ver. 2.1

<210>	1
<211>	477
<212>	ADN

<213> Human Papillomavirus

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<220>
<221> CDS
<222> (1)..(477)
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<400> 1

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Met His Gln Lys Arg Thr Ala Met Phe Gln Asp Pro Gln Glu Arg Pro
1 5 10 15

aga aag tta cca cag tta tgc aca gag ctg caa aca act ata cat gat 96
Arg Lys Leu Pro Gln Leu Cys Thr Glu Leu Gln Thr Thr Ile His Asp
20 25 30

ata ata tta gaa tgt gtg tac tgc aag caa cag tta ctg cga cgt gag 144
Ile Ile Leu Glu Cys Val Tyr Cys Lys Gln Gln Leu Leu Arg Arg Glu
35 40 45

gta tat gac ttt gct ttt cgg gat tta tgc ata gta tat aga gat ggg 192
Val Tyr Asp Phe Ala Phe Arg Asp Leu Cys Ile Val Tyr Arg Asp Gly
50 55 60

aat cca tat gct gta tgt gat aaa tgt tta aag ttt tat tct aaa att 240
Asn Pro Tyr Ala Val Cys Asp Lys Cys Leu Lys Phe Tyr Ser Lys Ile
65 70 75 80

agt gag tat aga cat tat tgt tat agt ttg tat gga aca aca tta gaa 288
Ser Glu Tyr Arg His Tyr Cys Tyr Ser Leu Tyr Gly Thr Thr Leu Glu
85 90 95

cag caa tac aac aaa ccg ttg tgt gat ttg tta att agg tgt att aac 336
Gln Gln Tyr Asn Lys Pro Leu Cys Asp Leu Leu Ile Arg Cys Ile Asn
100 105 110

<211> 66

6

35

40

45

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aga gcc cat tac aat att gta acc ttt tgt tgc aag tgt gac tct acg    192
Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser Thr
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ctt cgg ttg tgc gta caa agc aca cac gta gac att cgt act ttg gaa 240
Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu Glu
65 70 75 80

gac ctg tta atg ggc aca cta gga att gtg tgc ccc atc tgt tct cag 288
Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser Gln
85 90 95

aaa cca taa 297
Lys Pro

<210> 12

<211> 98

<212> PRT

<213> Human Papillomavirus

<400> 12

Met His Gly Asp Thr Pro Thr Leu His Glu Tyr Met Leu Asp Leu Gln
1 5 10 15

Pro Glu Thr Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn Asp Ser Ser
20 25 30

Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro Asp
35 40 45

Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser Thr
50 55 60

Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu Glu
65 70 75 80

Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser Gln
85 90 95

Lys Pro

<210> 13

<211> 69

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<213> Artificial sequence

 $\langle 220 \rangle$

<223> Description of the artificial sequence: fragment of the sequence coding for E7 of HPV and corresponding peptide sequence

 $\langle 220 \rangle$

<221> CDS

<222> (1) . . (69)

<400> 13

gga gat aca cct aca ttg cat gaa tat atg tta gat ttg caa cca gag 48
Gly Asp Thr Pro Thr Leu His Glu Tyr Met Leu Asp Leu Gln Pro Glu
1 5 10 15

aca act gat ctc tac tgt tat 69
Thr Thr Asp Leu Tyr Cys Tyr
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<210> 14

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<212> PRT

<213> Artificial sequence

<223> Description of the artificial sequence: fragment of the sequence coding for E7 of HPV and corresponding peptide sequence

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Gly Asp Thr Pro Thr Leu His Glu Tyr Met Leu Asp Leu Gln Pro Glu
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Thr Thr Asp Leu Tyr Cys Tyr
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<210> 15

<211> 51

<212> ADN

<213> Artificial sequence

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<223> Description of the artificial sequence: fragment of the sequence coding for E7 of HPV and corresponding peptide sequence

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<221> CDS

<222> (1) . . (51)

<400> 15

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Gln Ala Glu Pro Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys
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aag	51
Lys	

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<212> PRT

<213> Artificial sequence

<223> Description of the artificial sequence: fragment of the sequence coding for E7 of HPV and corresponding peptide sequence

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5 Lys

<210> 17

10 <211> 57

<212> ADN

<213> Artificial sequence

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15 <223> Description of the artificial sequence: fragment
of the sequence coding for E7 of HPV and corresponding
peptide sequence

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<222> (1)..(57)

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1 5 10 15

tct cag aaa

Ser Gln Lys

57

30

<210> 18

<211> 19

<212> PRT

35 <213> Artificial sequence

<223> Description of the artificial sequence: fragment
of the sequence coding for E7 of HPV and corresponding
peptide sequence

<400> 18

Leu Glu Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys
1 5 10 15

Ser Gln Lys

45